Dell SonicWALL SuperMassive Next-Generation Firewall Series

Network security

The Dell™ SonicWALL™ SuperMassive™ Series is Dell's Next-Generation Firewall (NGFW) platform designed for large networks to deliver scalability, reliability and deep security at multi-gigabit speeds with near zero latency.

Built to meet the needs of enterprise, government, university, and service provider deployments, the SuperMassive Series is ideal for securing enterprise networks, data centers and service providers.

Combining its massively multi-core architecture and Dell SonicWALL's patented* Reassembly-Free Deep Packet Inspection® (RFDPI) technology, the SuperMassive E10000 and 9000 Series deliver industry-leading application control, intrusion prevention, malware protection and SSL inspection at multi-gigabit speeds. The SuperMassive Series is designed with power, space, and cooling (PSC) in mind, providing the leading Gbps/Watt NGFW in the industry for application control and threat prevention.

The Dell SonicWALL RFDPI engine scans every byte of every packet across all ports, delivering full content inspection of the entire stream while providing high performance and low latency. This technology is superior to outdated proxy designs that reassemble content using sockets bolted to anti-malware programs that are plagued with inefficiencies and overhead of socket memory thrashing that leads to high latency, low performance and file size limitations. The RFDPI engine delivers full content inspection to eliminate threats before they enter the network and provides protection against millions of unique malware variants without file size, performance or latency limitations. The RFDPI engine also provides full inspection of SSL-encrypted traffic as well as non-proxyable applications enabling complete protection regardless of transport or protocol.

Application traffic analytics allow for the identification of productive and unproductive application traffic in real time which can then be controlled through powerful application-level policies. Application control can be exercised on both a per-user and per-group basis, along with schedules and exception lists. All application, intrusion prevention, and malware signatures are constantly updated by the Dell SonicWALL Threats Research Team. Additionally, SonicOS, an advanced purpose-built operating system, provides integrated tools that allow for custom application identification and control.

The design of the SuperMassive Series firewalls provides near-linear performance increases and scales up to 96 cores of processing power to deliver up to 30 Gbps of threat prevention and 30 Gbps of application inspection and control. The SuperMassive E10000 Series is field upgradeable, future-proofing the security infrastructure investment as network bandwidth and security requirements increase.

SuperMassive E10000 Series

SuperMassive 9000 Series

- **Complete threat protection including high performance intrusion prevention and low latency malware protection**
- **Superior granular application intelligence, control and visualization**
- **Full inspection of SSL encrypted traffic without overhead, latency, and memory thrashing associated with socket-based SSL proxies**
- **Massively scalable multicore architecture designed for 10/40 Gbps infrastructure**

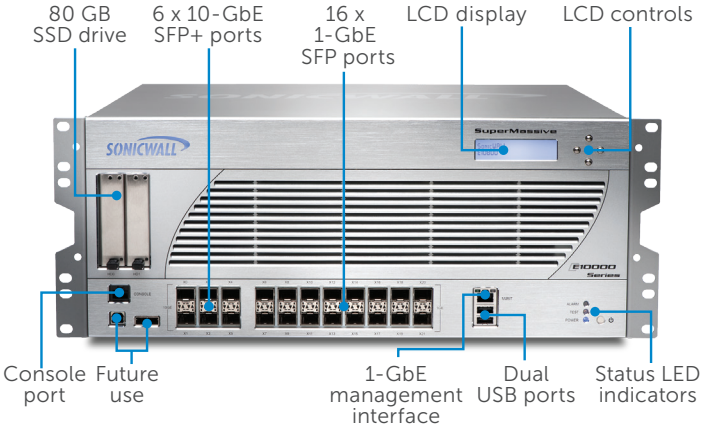
*U.S. Patents 7,310,815; 7,600,257; 7,738,380; 7,835,361

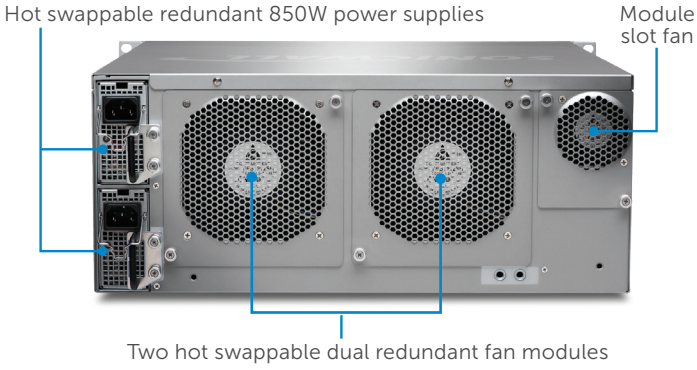
Series lineup

The Dell SonicWALL SuperMassive E10000 Series chassis includes 6 x 10-GbE SFP+ and 16 x 1-GbE SFP ports, redundant 850W AC power supplies, hot swappable dual redundant fan modules, and massively scales up to 96 processing cores.

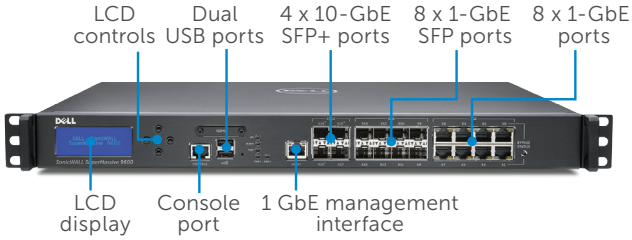
The Dell SonicWALL SuperMassive 9000 Series features 4 x 10-GbE SFP+, 8 x 1-GbE SFP, 8 x 1-GbE Copper and 1 GbE management interfaces, with an expansion port for an additional 2 x 10-GbE SFP+ interfaces (future release). The 9000 Series features dual hot swappable fan modules and power supplies.

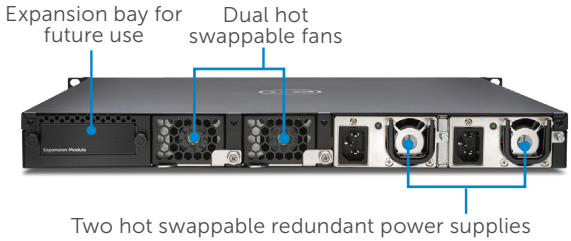
SuperMassive E10000 Series





SuperMassive 9000 Series



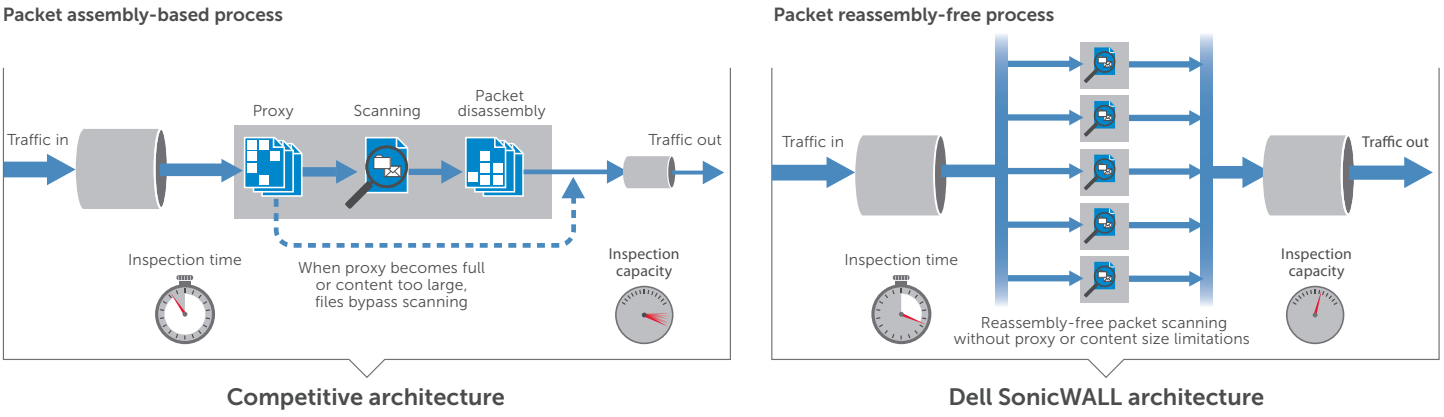


Capability	9200	9400	9600	E10200	E10400	E10800
Processing cores	24	32	32	24	48	96
Firewall throughput	10 Gbps	20 Gbps	20 Gbps	10 Gbps	20 Gbps	40 Gbps
Application intelligence throughput	5 Gbps	8 Gbps	9.7 Gbps	7.5 Gbps	15 Gbps	30 Gbps
IPS throughput	5 Gbps	8 Gbps	9.7 Gbps	7.5 Gbps	15 Gbps	30 Gbps
Anti-malware throughput	3.5 Gbps	4.5 Gbps	5 Gbps	3 Gbps	6 Gbps	12 Gbps
Maximum connections	1.25 M	1.25 M	1.5 M	3 M	6 M	12 M

Deployment Modes	9200	9400	9600	E10200	E10400	E10800
L2 Bridge, Transparent Mode	Yes	Yes	Yes	Yes	Yes	Yes
Wire Mode	Yes	Yes	Yes	Yes	Yes	Yes
Gateway/NAT Mode	Yes	Yes	Yes	Yes	Yes	Yes
Tap Mode	Yes	Yes	Yes	Yes	Yes	Yes
Transparent Bridge Mode	Yes	Yes	Yes	Yes	Yes	Yes

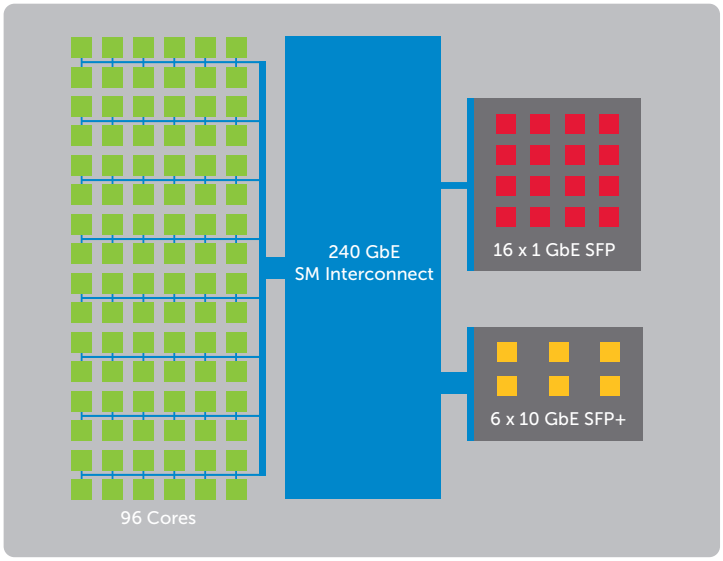
Reassembly-Free Deep Packet Inspection engine

The Dell SonicWALL Reassembly-Free Deep Packet Inspection (RFDPI) engine provides superior threat protection and application control without compromising performance. This patented engine relies on streaming traffic payload inspection in order to detect threats at Layers 3-7. The RFDPI engine takes network streams through extensive and repeated normalization and decryption in order to neutralize advanced evasion techniques that seek to confuse detection engines and sneak malicious code into the network. Once a packet undergoes the necessary pre-processing, including SSL decryption, it is analyzed against a single proprietary memory representation of three signature databases: intrusion attacks, malware and applications. The connection state is then advanced to represent the position of the stream relative to these databases until it encounters a state of attack, or other "match" event, at which point a pre-set action is taken. In most cases, the connection is terminated and proper logging and notification events are created. However, the engine can also be configured for inspection only or, in case of application detection, to provide Layer 7 bandwidth management services for the remainder of the application stream as soon as the application is identified.



Extensible architecture for extreme scalability and performance

The RFDPI engine is designed from the ground up with an emphasis on providing security scanning at a high level of performance, to match both the inherently parallel and ever-growing nature of network traffic. When combined with 24-, 32-, 48- or 96-core processor systems, this parallelism-centric software architecture scales up perfectly to address the demands of deep packet inspection at high traffic loads. The SuperMassive platform relies on processors that, unlike x86, are optimized for packet, crypto and network processing while retaining flexibility and programmability in the field—a weak point for ASICs systems. This flexibility is essential when new code and behavior updates are necessary to protect against new attacks that require updated and more sophisticated detection techniques. Another aspect of the platform design is the unique ability to establish new connections on any core in the system, providing ultimate scalability and the ability to deal with traffic spikes. This approach delivers extremely high new session establishment rates (new conn/sec) while Deep Packet Inspection is enabled—a key metric that is often a bottleneck for data center deployments.



SonicWALL

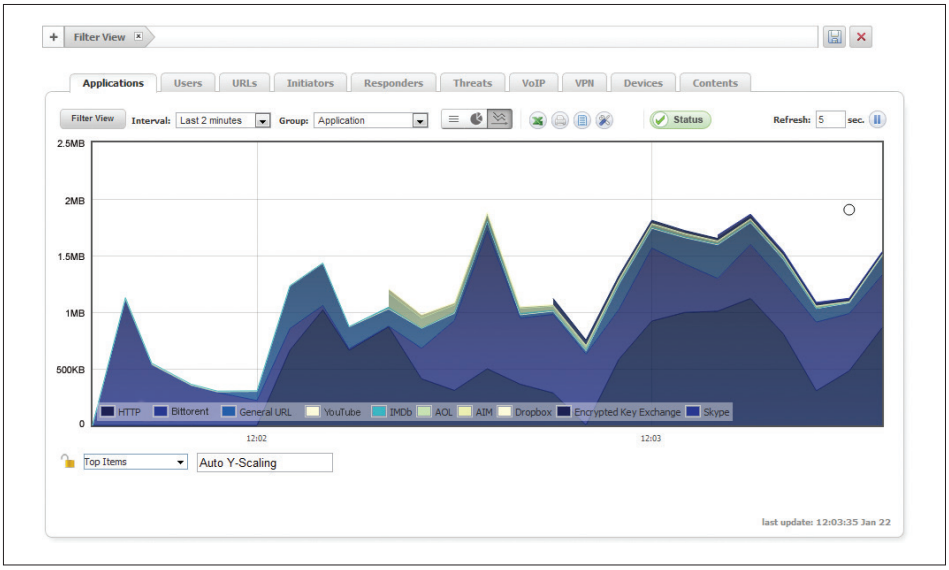
Security and protection

The dedicated, in-house Dell SonicWALL Threats Research Team works on researching and developing countermeasures to deploy to the firewalls in the field for up-to-date protection. The team leverages more than one million sensors across the globe for malware samples, and for telemetry feedback on the latest threat information, which in turn is fed into the intrusion prevention, anti-malware and application detection capabilities. Dell SonicWALL NGFW customers with the latest security capabilities are provided continuously updated threat protection around the clock, with new updates taking effect immediately without reboots or interruptions. The signatures resident on the appliances are designed to protect against wide classes of attacks, covering up to tens of thousands of individual threats with a single signature. In addition to the countermeasures on the appliance, SuperMassive firewalls also have access to the Dell SonicWALL CloudAV Service, which extends the onboard signature intelligence with more than twelve million signatures, and growing. This CloudAV database is accessed via a proprietary light-weight protocol by the firewall to augment the inspection done on the appliance. With Geo-IP and botnet filtering capabilities, Dell SonicWALL NGFWs are able to block traffic from dangerous domains or entire geographies in order to reduce the risk profile of the network.

Application intelligence and control

Application intelligence informs administrators of application traffic traversing their network, so they can schedule application controls based on business priority, throttle unproductive applications, and block potentially dangerous applications. Real-time visualization identifies traffic anomalies as they happen, enabling immediate countermeasures against potential inbound or outbound attacks or performance bottlenecks.

Dell SonicWALL Application Traffic Analytics provide granular insight into application traffic, bandwidth utilization and security threats, as well as powerful troubleshooting and forensics capabilities. Additionally, secure Single Sign-On (SSO) capabilities ease user experience, increase productivity and reduce support calls. The Dell



SonicWALL Global Management System (GMS®) simplifies management of application intelligence and control using an intuitive web-based interface.

SonicWALL

Features

RFDPI engine	
Feature	Description
Reassembly-Free Deep Packet Inspection (RFDPI)	This high-performance, proprietary and patented inspection engine performs stream-based bi-directional traffic analysis, without proxying or buffering, to uncover intrusion attempts, malware and identify application traffic regardless of port.
Bi-directional inspection	Scans for threats in both inbound and outbound traffic simultaneously to ensure that the network is not used to distribute malware, and does not become a launch platform for attacks in case an infected machine is brought inside.
Stream-based inspection	Proxy-less and non-buffering inspection technology provides ultra-low latency performance for DPI of millions of simultaneous network streams without introducing file and stream size limitations, and can be applied on common protocols as well as raw TCP streams.
Highly parallel and scalable	The unique design of the RFDPI engine works with the multi-core architecture to provide high DPI throughput and extremely high new session establishment rates to deal with traffic spikes in demanding networks.
Single-pass inspection	A single-pass DPI architecture simultaneously scans for malware, intrusions and for application identification, drastically reducing DPI latency and ensuring that all threat information is correlated in a single architecture.

Intrusion prevention	
Feature	Description
Countermeasure-based protection	Tightly integrated intrusion prevention system (IPS) leverages signatures and other countermeasures to scan packet payloads for vulnerabilities and exploits, covering a broad spectrum of attacks and vulnerabilities.
Automatic signature updates	The Dell SonicWALL Threat Research Team continuously researches and deploys updates to an extensive list of IPS countermeasures that covers more than 50 attack categories. The new updates take immediate effect without any reboot or service interruption required.
Intra-zone IPS protection	Bolsters internal security by segmenting the network into multiple security zones with intrusion prevention, preventing threats from propagating across the zone boundaries.
Botnet command and control (CnC) detection and blocking	Identifies and blocks command and control traffic originating from bots on the local network to IPs and domains that are identified as propagating malware or are known CnC points.
Protocol abuse/anomaly detection and prevention	Identifies and blocks attacks that abuse protocols in an attempt to sneak past the IPS.
Zero-day protection	Protects the network against zero-day attacks with constant updates against the latest exploit methods and techniques that cover thousands of individual exploits.
Anti-evasion technology	Extensive stream normalization, decoding and other techniques ensure that threats do not enter the network undetected by utilizing evasion techniques in Layers 2-7.

Features

Threat prevention	
Feature	Description
Gateway anti-malware	The Dell SonicWALL RFDPI engine scans all inbound, outbound and intra-zone traffic for viruses, Trojans, key loggers and other malware in files of unlimited length and size across all ports and TCP streams.
CloudAV	A continuously updated database of over 12 million threat signatures resides in the Dell SonicWALL cloud servers and is referenced to augment the capabilities of the onboard signature database, providing RFDPI with an extensive coverage of threats.
Around-the-clock security updates	The Dell SonicWALL Threat Research Team analyzes new threats and releases countermeasures 24 hours a day, 7 days a week. New threat updates are automatically pushed to firewalls in the field with active security services, and take effect immediately without reboots or interruptions.
SSL inspection	Decrypts and inspects SSL traffic on the fly, without proxying, for malware, intrusions and data leakage, and applies application, URL and content control policies in order to protect against threats hidden in SSL encrypted traffic.
Bi-directional raw TCP inspection	The RFDPI engine is capable of scanning raw TCP streams on any port bi-directionally, preventing attacks that try to sneak by outdated security systems that focus on securing a few well-known ports.
Extensive protocol support	Identifies common protocols such as HTTP/S, FTP, SMTP, SMBv1/v2 and others, which do not send data in raw TCP, and decodes payloads for malware inspection, even if they do not run on standard well known ports.

Application intelligence and control	
Feature	Description
Application control	Controls applications, or individual application features, which are identified by the RFDPI engine against a continuously expanding database of over 4,300 application signatures, to increase network security and enhance network productivity.
Custom application identification	Controls custom applications by creating signatures based on specific parameters or patterns unique to an application in its network communications, in order to gain further control over the network.
Application bandwidth management	Restricts or prioritizes applications or application categories in order to maximize available bandwidth for critical applications while eliminating or reducing undesired application traffic.
On-box/off-box traffic visualization	Identifies bandwidth utilization and analyzes network behavior with real-time on-box application traffic visualization and off-box application traffic reporting via NetFlow/IPFix.
Granular control	Controls applications, or specific components of an application, based on schedules, users groups, exclusion lists and a range of actions with full SSO user identification through LDAP/AD/ Terminal Services/Citrix integration.

Features

Firewall and networking

Feature	Description
Stateful Packet Inspection	All network traffic is inspected, analyzed and brought into compliance with firewall access policies.
DDoS/DoS attack protection	SYN Flood protection provides a defense against DOS attacks using both Layer 3 SYN proxy and Layer 2 SYN blacklisting technologies. Additionally, it provides the ability to protect against DOS/DDoS through UDP/ICMP flood protection and connection rate limiting.
Flexible deployment options	The SuperMassive Series can be deployed in traditional NAT, Layer 2 Bridge, Wire Mode, and Network Tap modes.
High availability/clustering	The SuperMassive Series supports Active/Passive with state synchronization, Active/Active DPI and Active/Active Clustering high availability modes. Active/Active DPI offloads the Deep Packet Inspection load to cores on the passive appliance to boost throughput.
WAN load balancing	Load balances multiple WAN interfaces using Round Robin, Spillover or Percentage based methods.
Policy-based routing	Creates routes based on protocol to direct traffic to a preferred WAN connection with the ability to fail back to a secondary WAN in the event of an outage.
Advanced QoS	Guarantees critical communications with 802.1p and DSCP tagging, and remapping of VoIP traffic on the network.
H.323 gatekeeper and SIP proxy support	Blocks spam calls by requiring that all incoming calls are authorized and authenticated by H.323 gatekeeper or SIP proxy.

Management and reporting

Feature	Description
Global Management System	With Dell SonicWALL GMS, monitors, configures and reports on multiple Dell SonicWALL appliances through a single management console with an intuitive interface, to reduce management costs and complexity.
Powerful single device management	An intuitive web-based interface allows quick and convenient configuration, in addition to a comprehensive CLI and support for SNMPv2/3.
IPFIX/NetFlow application flow reporting	Exports application traffic analytics and usage data through IPFIX or NetFlow protocols for real-time and historical monitoring and reporting with tools, such as Dell SonicWALL Scrutinizer or other tools that support IPFIX and NetFlow with extensions.

Virtual Private Networking

Feature	Description
IPSec VPN for site-to-site connectivity	High-performance IPSec VPN allows the SuperMassive Series to act as a VPN concentrator for thousands of other large sites, branch offices or home offices.
SSL VPN or IPSec client remote access	Utilizes clientless SSL VPN technology or an easy-to-manage IPSec client for easy access to email, files, computers, intranet sites and applications from a variety of platforms.
Redundant VPN gateway	When using multiple WANs, a primary and secondary VPN can be configured to allow seamless automatic failover and failback of all VPN sessions.
Route-based VPN	The ability to perform dynamic routing over VPN links ensures continuous uptime in the event of a temporary VPN tunnel failure, by seamlessly re-routing traffic between endpoints through alternate routes.

Features

Content/context awareness

Feature	Description
User activity tracking	User identification and activity are made available through seamless AD/LDAP/Citrix/Terminal Services SSO integration combined with extensive information obtained through DPI.
GeoIP country traffic identification	Identifies and controls network traffic going to or coming from specific countries to either protect against attacks from known or suspected origins of threat activity, or to investigate suspicious traffic originating from the network.
Regular Expression DPI filtering	Prevents data leakage by identifying and controlling content crossing the network through regular expression matching.

SonicOS feature summary

Firewall
- Reassembly-Free Deep Packet Inspection
- Deep packet inspection for SSL
- Stateful packet inspection
- TCP reassembly
- Stealth mode
- Common Access Card (CAC) support
- DOS attack protection
- UDP/ICMP/SYN Flood Protection

Intrusion prevention
- Signature-based scanning
- Automatic signature updates
- Outbound threat prevention
- IPS exclusion list
- GeoIP and Reputation-based filtering
- Regular Expression matching
- UDP/ICMP/SYN Flood protection

Anti-Malware
- Stream-based malware scanning
- Gateway anti-virus
- Gateway anti-spyware
- SSL decryption
- Bi-directional inspection
- No file size limitation
- CloudAV threat database

Application control
- Application control
- Application component blocking
- Application bandwidth management
- Custom application signature creation
- Application Traffic Visualization
- Data leakage prevention
- Application reporting over NetFlow/IPFIX
- User activity tracking (SSO)
- Comprehensive application signature database

Web content filtering
- URL filtering
- Anti-proxy technology
- Keyword blocking
- Bandwidth manage CFS rating categories
- Unified policy model with app control
- 56 Content filtering categories

VPN
- IPSec VPN for site-to-site connectivity
- SSL VPN or IPSec client remote access
- Redundant VPN gateway
- Mobile Connect for Apple® iOS and Google® Android™
- Route-based VPN (OSPF, RIP)

Networking
- Dynamic routing
- SonicPoint wireless controller*
- Policy-based routing
- Advanced NAT
- DHCP server
- Bandwidth Management
- Link aggregation
- Port redundancy
- A/P High availability with State Sync
- A/A Clustering
- Inbound/Outbound Load balancing
- L2 Bridge, Wire mode, Tap Mode, NAT Mode

VoIP
- Advanced QoS
- Bandwidth management
- DPI for VoIP traffic
- H.323 gatekeeper and SIP proxy support

Management and monitoring
- Web GUI
- Command line interface (CLI)
- SNMPv2/v3
- Off-Box reporting (Scrutinizer)
- Centralized management and reporting Global Management System policy management and reporting
- Logging
- Netflow/IPFix Exporting
- App Traffic visualization
- LCD management screen
- Centralized policy management
- Single Sign-On (SSO)
- Terminal service/Citrix support
- Solera Networks Forensics integration

*SonicPoint wireless controller available in 9000 series at the time of publication

SuperMassive E10000 Series system specifications

	E10200	E10400	E10800
Operating system		SonicOS	
Cores	24	48	96
10 GbE interfaces		6 x 10-GbE SFP+	
1 GbE interfaces		16 x 1-GbE SFP	
Management interfaces		1 GbE, 1 Console	
Memory (RAM)	16 GB	32 GB	64 GB
Storage		80 GB SSD, Flash	
Firewall inspection throughput[1]	10 Gbps	20 Gbps	40 Gbps
Application inspection throughput[2]	7.5 Gbps	15 Gbps	30 Gbps
IPS throughput[2]	7.5 Gbps	15 Gbps	30 Gbps
Anti-malware inspection throughput[2]	3 Gbps	6 Gbps	12 Gbps
IMIX performance	2.7 Gbps	5.3 Gbps	10 Gbps
VPN throughput[3]	5 Gbps	10 Gbps	20 Gbps
Connections per second	160,000/sec	320,000/sec	640,000/sec
Maximum connections (SPI)	3 M	6 M	12 M
Maximum connections (DPI)	2.5 M	5 M	10 M
VPN			
Site-to-site tunnels		10,000	
IPSec VPN clients (max)		2,000 (10,000)	
SSL VPN licenses (max)		50 (50)	
Encryption		DES, 3DES, AES (128, 192, 256-bit)	
Authentication		MD5, SHA-1	
Key exchange		Diffie Hellman Groups 1, 2, 5, 14	
Route-based VPN		RIP, OSPF	
Networking			
IP address assignment		Static (DHCP PPPoE, L2TP and PPTP client), Internal DHCP server, DHCP Relay	
NAT modes		1:1, many:1, 1:many, flexible NAT (overlapping IPS), PAT, transparent mode	
VLAN interfaces		512	
Routing protocols		BGP, OSPF, RIPv1/v2, static routes, policy-based routing, multicast	
QoS		Bandwidth priority, max bandwidth, guaranteed bandwidth, DSCP marking, 802.1p	
Authentication		XAUTH/RADIUS, Active Directory, SSO, LDAP, Novell, internal user database, terminal services, Citrix	
VoIP		Full H323-v1-5, SIP	
Standards		TCP/IP, ICMP, HTTP, HTTPS, IPSec, ISAKMP/IKE, SNMP, DHCP, PPPoE, L2TP, PPTP, RADIUS, IEEE 802.3	
Certifications pending		FIPS 140-2, Common Criteria EAL4+, NEBS, ICSA Firewall	
Certifications		NSS NGFW Recommended and NSS IPS Recommended	
Common Access Card (CAC) support		Pending	
Hardware			
Power supply		Dual, redundant, hot swappable, 850 W	
Fans		Dual, redundant, hot swappable	
Display		Front LED display	
Input power		100-240 VAC, 60-50 Hz	
Maximum power consumption (W)	400	550	750
Form factor		4U Rack Mountable	
Dimensions		17x18x7 in (43x43.5x17.8 cm)	
Weight	58 lb (26.3 kg)	61 lb (27.7 kg)	67 lb (30.3 k
WEEE weight	59 lb (26.8 kg)	62 lb (28.1 kg)	68 lb (30.8 kg)
Shipping weight	79 lb (35.8 kg)	82 lb (37.2 kg)	88 lb (39.9 kg)
Major regulatory		FCC Class A, CE, C-Tick, VCCI, Compliance MIC, UL, cUL, TUV/GS, CB, NOM, RoHS, WEEE	
Environment		40-105 F, 5-40 deg C	
Humidity		10-90% non-condensing	

[1] Testing Methodologies: Maximum performance based on RFC 2544 (for firewall). Actual performance may vary depending on network conditions and activated services. [2] Full DPI/Gateway AV/Anti-Spyware/IPS throughput measured using industry standard Spirent WebAvalanche HTTP performance test and Ixia test tools. Testing done with multiple flows through multiple port pairs. [3] VPN throughput measured using UDP traffic at 1280 byte packet size adhering to RFC 2544. All specifications, features and availability are subject to change.

SuperMassive 9000 Series system specifications

	9200	9400	9600
Operating system	SonicOS		
Cores	24	32	
10 GbE interfaces	4 x 10-GbE SFP+		
1 GbE interfaces	8 x 1-GbE SFP, 8 x 1 GbE (1 LAN Bypass pair)		
Management interfaces	1 GbE, 1 Console		
Memory (RAM)	8 GB	16 GB	32 GB
Expansion	1 Expansion Slot (Rear)*, SD Card*		
Firewall inspection throughput[1]	15 Gbps	20 Gbps	
Application inspection throughput[2]	5 Gbps	8 Gbps	9.7 Gbps
IPS throughput[2]	5 Gbps	8 Gbps	9.7 Gbps
Anti-malware inspection throughput[2]	3.5 Gbps	4.5 Gbps	5 Gbps
IMIX Performance (Gbps)	4.4 Gbps	5.5 Gbps	
VPN throughput[3]	5 Gbps	10 Gbps	11.5 Gbps
Connections per second	100,000/sec	130,000/sec	
Maximum connections (SPI)	1.25 M		1.5 M
Maximum connections (DPI)	1 M		1.25 M
SonicPoints Supported (Maximum)	96	128	
VPN			
Site-to-site tunnels	6,000	10,000	
IPSec VPN clients (Maximum)	2,000 (4,000)	2,000 (6,000)	2,000 (10,000)
SSL VPN licenses (Maximum)	2 (50)		50 (50)
Encryption/Authentication	DES, 3DES, AES (128, 192, 256-bit)/MD5, SHA-1		
Key exchange	Diffie Hellman Groups 1, 2, 5, 14		
Route-based VPN	RIP, OSPF		
Networking			
IP address assignment	Static (DHCP PPPoE, L2TP and PPTP client), Internal DHCP server, DHCP Relay		
NAT modes	1:1, many:1, 1:many, flexible NAT (overlapping IPS), PAT, transparent mode		
VLAN interfaces	512		
Routing protocols	BGP, OSPF, RIPv1/v2, static routes, policy-based routing, multicast		
QoS	Bandwidth priority, max bandwidth, guaranteed bandwidth, DSCP marking, 802.1p		
Authentication	XAUTH/RADIUS, Active Directory, SSO, LDAP, Novell, internal user database, Terminal Services, Citrix		
VoIP	Full H323-v1-5, SIP		
Standards	TCP/IP, ICMP, HTTP, HTTPS, IPSec, ISAKMP/IKE, SNMP, DHCP, PPPoE, L2TP, PPTP, RADIUS, IEEE 802.3		
Certifications pending	FIPS 140-2, Common Criteria EAL4+, ICSA Firewall		
Common Access Card (CAC)	Pending		
Hardware			
Power supply	Dual, redundant, hot swappable, 300 W		
Fans	Dual, redundant, hot swappable		
Display	Front LED display		
Input power	100-240 VAC, 60-50 Hz		
Maximum power consumption (W)	300		
Form factor	1U Rack Mountable		
Dimensions	17x19.1x1.75 in (43.3x48.5x4.5 cm)		
Weight	18.1 lb (8.2 kg)		
WEEE weight	23 lb (10.4 kg)		
Shipping weight	29.3 lb (13.3 kg)		
Major regulatory	FCC Class A, CE, C-Tick, VCCI, Compliance KCC, UL, cUL, TUV/GS, CB, NOM, RoHS, WEEE , ANATEL, BSMI		
Environment	32-105 F, 0-40 deg C		
Humidity	10-90% non-condensing		

[1] Testing Methodologies: Maximum performance based on RFC 2544 (for firewall). Actual performance may vary depending on network conditions and activated services. [2] Full DPI/Gateway AV/Anti-Spyware/IPS throughput measured using industry standard Spirent WebAvalanche HTTP performance test and Ixia test tools. Testing done with multiple flows through multiple port pairs. [3] VPN throughput measured using UDP traffic at 1280 byte packet size adhering to RFC 2544. All specifications, features and availability are subject to change. *Future use. All specifications, features and availability are subject to change.

SuperMassive E10000 Series ordering information

Product	SKU
SuperMassive E10200, 6 SFP+ 10GbE ports, 16 SFP 1GbE ports, dual fans, dual ac power supplies	01-SSC-8882
SuperMassive E10400, 6 SFP+ 10GbE ports, 16 SFP 1GbE ports, dual fans, dual ac power supplies	01-SSC-8881
SuperMassive E10800, 6 SFP+ 10GbE ports, 16 SFP 1GbE ports, dual fans, dual ac power supplies	01-SSC-8856
System upgrades	**SKU**
SuperMassive E10200 to E10400 upgrade	01-SSC-9497
SuperMassive E10400 to E10800 upgrade	01-SSC-9498
SuperMassive E10200 support and security subscriptions	**SKU**
Threat Prevention–Intrusion Prevention, Gateway Anti-Virus, Gateway Anti-Spyware, Cloud Anti-Virus for E10200 (1-year)	01-SSC-9518
Application Intelligence and Control–Application Intelligence, Application Control, App Flow Visualization for E10200 (1-year)	01-SSC-9524
Content Filtering Premium Business Edition for E10200 (1-year)	01-SSC-9521
Platinum Support for the SuperMassive E10200 (1-year)	01-SSC-9530
Comprehensive Gateway Security Suite–Application Intelligence, Threat Prevention, Content Filtering with Support for E10200 (1-year)	01-SSC-9533
SuperMassive E10400 support and security subscriptions	**SKU**
Threat Prevention–Intrusion Prevention, Gateway Anti-Virus, Gateway Anti-Spyware, Cloud Anti-Virus for E10400 (1-year)	01-SSC-9536
Application Intelligence and Control–Application Intelligence, Application Control, App Flow Visualization for E10400 (1-year)	01-SSC-9542
Content Filtering Premium Business Edition for E10400 (1-year)	01-SSC-9539
Platinum Support for the SuperMassive E10400 (1-year)	01-SSC-9548
Comprehensive Gateway Security Suite–Application Intelligence, Threat Prevention, Content Filtering with Support for E10400 (1-year)	01-SSC-9551
SuperMassive E10800 support and security subscriptions	**SKU**
Application Intelligence and Control–Application Intelligence, Application Control, App Flow Visualization for E10800 (1-year)	01-SSC-9560
Threat Prevention–Intrusion Prevention, Gateway Anti-Virus, Gateway Anti-Spyware, Cloud Anti-Virus for E10800 (1-year)	01-SSC-9554
Content Filtering Premium Business Edition for E10800 (1-year)	01-SSC-9557
Platinum Support for the SuperMassive E10800 (1-year)	01-SSC-9566
Comprehensive Gateway Security Suite–Application Intelligence, Threat Prevention, Content Filtering with Support for E10800 (1-year)	01-SSC-9569
Modules and accessories*	**SKU**
SuperMassive E10000 Series system fan FRU	01-SSC-8885
SuperMassive E10000 Series SSD fan module	01-SSC-8886
SuperMassive E10000 Series power supply FRU	01-SSC-8887
10GBASE-SR SFP+ Short Reach Module	01-SSC-9785
10GBASE-LR SFP+ Long Reach Module	01-SSC-9786
10GBASE SFP+ 1M Twinax Cable	01-SSC-9787
10GBASE SFP+ 3M Twinax Cable	01-SSC-9788
1000BASE-SX SFP Short Haul Module	01-SSC-9789
1000BASE-LX SFP Long Haul Module	01-SSC-9790
1000BASE-T SFP Copper Module	01-SSC-9791
Management and reporting	**SKU**
Dell SonicWALL GMS 10 Node Software License	01-SSC-3363
Dell SonicWALL GMS E-Class 24x7 Software Support for 10 node (1-year)	01-SSC-6514
Dell SonicWALL Scrutinizer Virtual Appliance with Flow Analytics Module Software License for up to 5 nodes (includes one year of 24x7 Software Support)	01-SSC-3443
Dell SonicWALL Scrutinizer with Flow Analytics Module Software License for up to 5 nodes (includes one year of 24x7 Software Support)	01-SSC-4002
Dell SonicWALL Scrutinizer Advanced Reporting Module software license for up to 5 nodes (includes one year of 24x7 Software Support)	01-SSC-3773

*Please consult with a Dell SE for a complete list of supported SFP and SFP+ modules

Security Monitoring Services from Dell SecureWorks are available for this appliance Series. For more information, visit **www.dell.com/secureworks**

SuperMassive 9000 Series ordering information

Product	SKU
SuperMassive 9600	01-SSC-3880
SuperMassive 9600 High Availability	01-SSC-3881
SuperMassive 9400	01-SSC-3800
SuperMassive 9400 High Availability	01-SSC-3801
SuperMassive 9200	01-SSC-3810
SuperMassive 9200 High Availability	01-SSC-3811
SuperMassive 9200 support and security subscriptions	**SKU**
Comprehensive Gateway Security Suite–Application Intelligence, Threat Prevention, Content Filtering with Support for 9200 (1-year)	01-SSC-4172
Intrusion Prevention, Anti-Malware, CloudAV, Application Intellience, Control and Visualization for SuperMassive 9200 (1-year)	01-SSC-4202
Content Filtering Premium Business Edition for 9200 (1-year)	01-SSC-4184
Platinum Support for the SuperMassive 9200 (1-year)	01-SSC-4178
SuperMassive 9400 support and security subscriptions	**SKU**
Comprehensive Gateway Security Suite–Application Intelligence, Threat Prevention, Content Filtering with Support for 9400 (1-year)	01-SSC-4136
Intrusion Prevention, Anti-Malware, CloudAV, Application Intellience, Control and Visualization for SuperMassive 9400 (1-year)	01-SSC-4166
Content Filtering Premium Business Edition for 9400 (1-year)	01-SSC-4148
Platinum Support for the SuperMassive 9400 (1-year)	01-SSC-4142
SuperMassive 9600 support and security subscriptions	**SKU**
Comprehensive Gateway Security Suite–Application Intelligence, Threat Prevention, Content Filtering with Support for 9600 (1-year)	01-SSC-4100
Intrusion Prevention, Anti-Malware, CloudAV, Application Intellience, Control and Visualization for SuperMassive 9600 (1-year)	01-SSC-4130
Content Filtering Premium Business Edition for 9600 (1-year)	01-SSC-4112
Platinum Support for the SuperMassive 9600 (1-year)	01-SSC-4106
Modules and accessories*	**SKU**
Dell SonicWALL SuperMassive 9000 Series System Fan FRU	01-SSC-3876
Dell SonicWALL SuperMassive 9000 Series Power Supply AC FRU	01-SSC-3874
10GBASE-SR SFP+ Short Reach Module	01-SSC-9785
10GBASE-LR SFP+ Long Reach Module	01-SSC-9786
1000BASE-SX SFP Short Haul Module	01-SSC-9789
1000BASE-LX SFP Long Haul Module	01-SSC-9790
1000BASE-T SFP Copper Module	01-SSC-9791
Management and reporting	**SKU**
Dell SonicWALL GMS 10 Node Software License	01-SSC-3363
Dell SonicWALL GMS E-Class 24x7 Software Support for 10 node (1-year)	01-SSC-6514
Dell SonicWALL Scrutinizer Virtual Appliance with Flow Analytics Module Software License for up to 5 nodes (includes one year of 24x7 Software Support)	01-SSC-3443
Dell SonicWALL Scrutinizer with Flow Analytics Module Software License for up to 5 nodes (includes one year of 24x7 Software Support)	01-SSC-4002
Dell SonicWALL Scrutinizer Advanced Reporting Module software license for up to 5 nodes (includes one year of 24x7 Software Support)	01-SSC-3773

*Please consult with a Dell SE for a complete list of supported SFP and SFP+ modules

Security Monitoring Services from Dell SecureWorks are available for this appliance Series. For more information, visit **www.dell.com/secureworks**

Copyright 2013 Dell Inc. All rights reserved. Dell SonicWALL is a trademark of Dell Inc. and all other Dell SonicWALL product and service names and slogans are trademarks of Dell Inc. Other product and company names mentioned herein may be trademarks and/or registered trademarks of their respective owners. 02/13 DSNWL 0409

DELL SonicWALL